

Fig. 1A

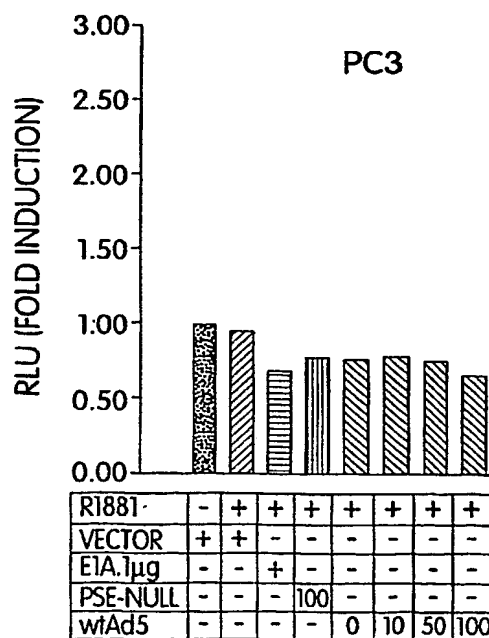
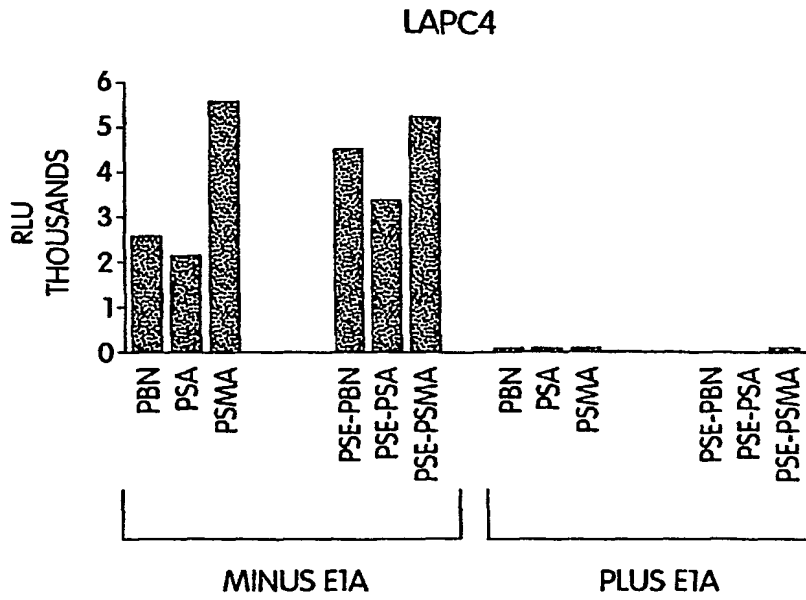
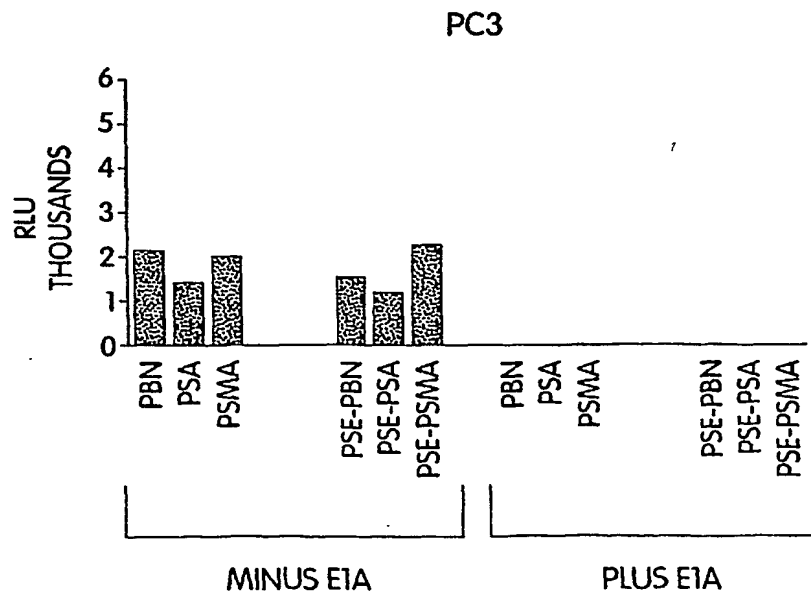


Fig. 1B

**Fig. 2A****Fig. 2B**

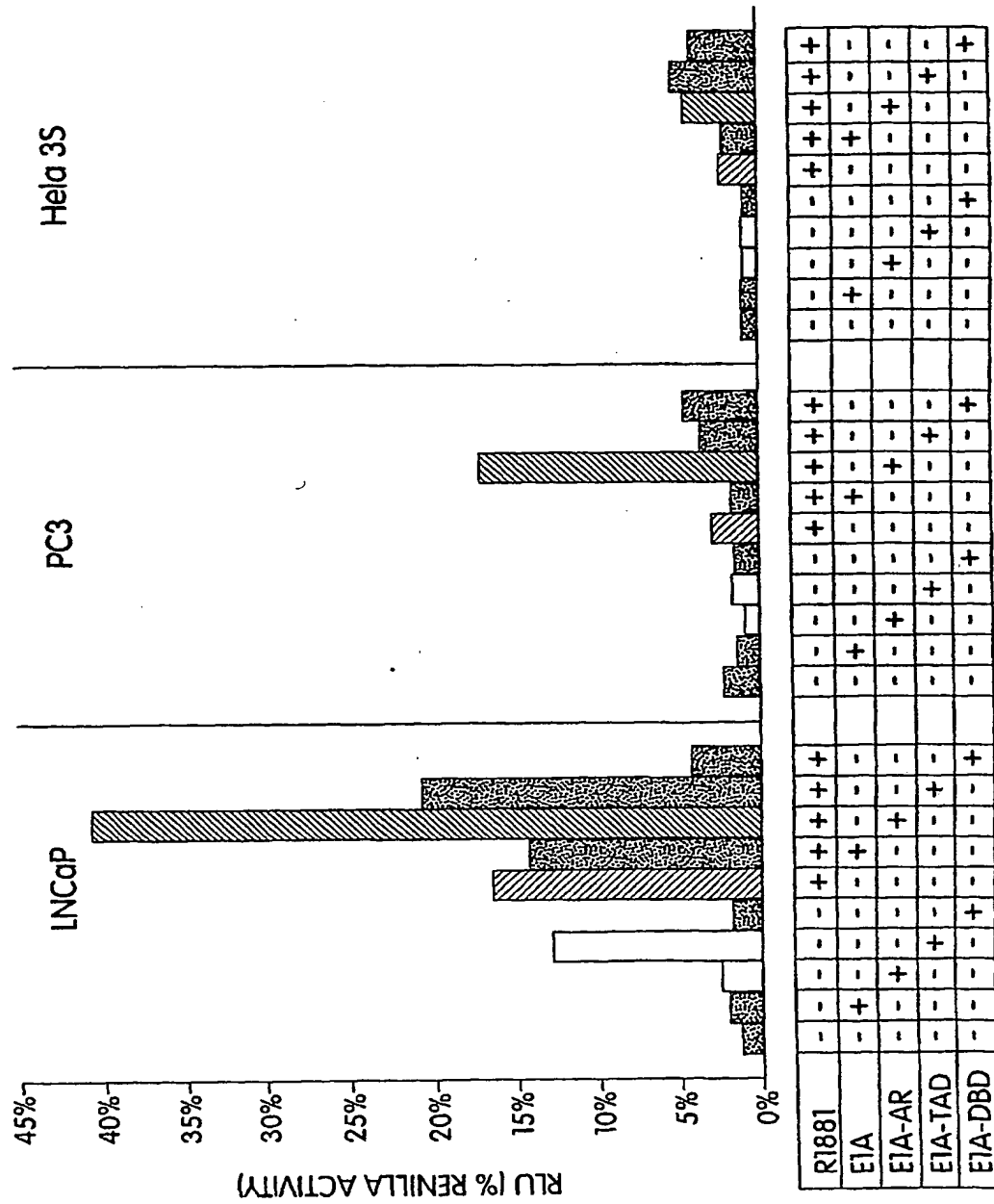


Fig. 3

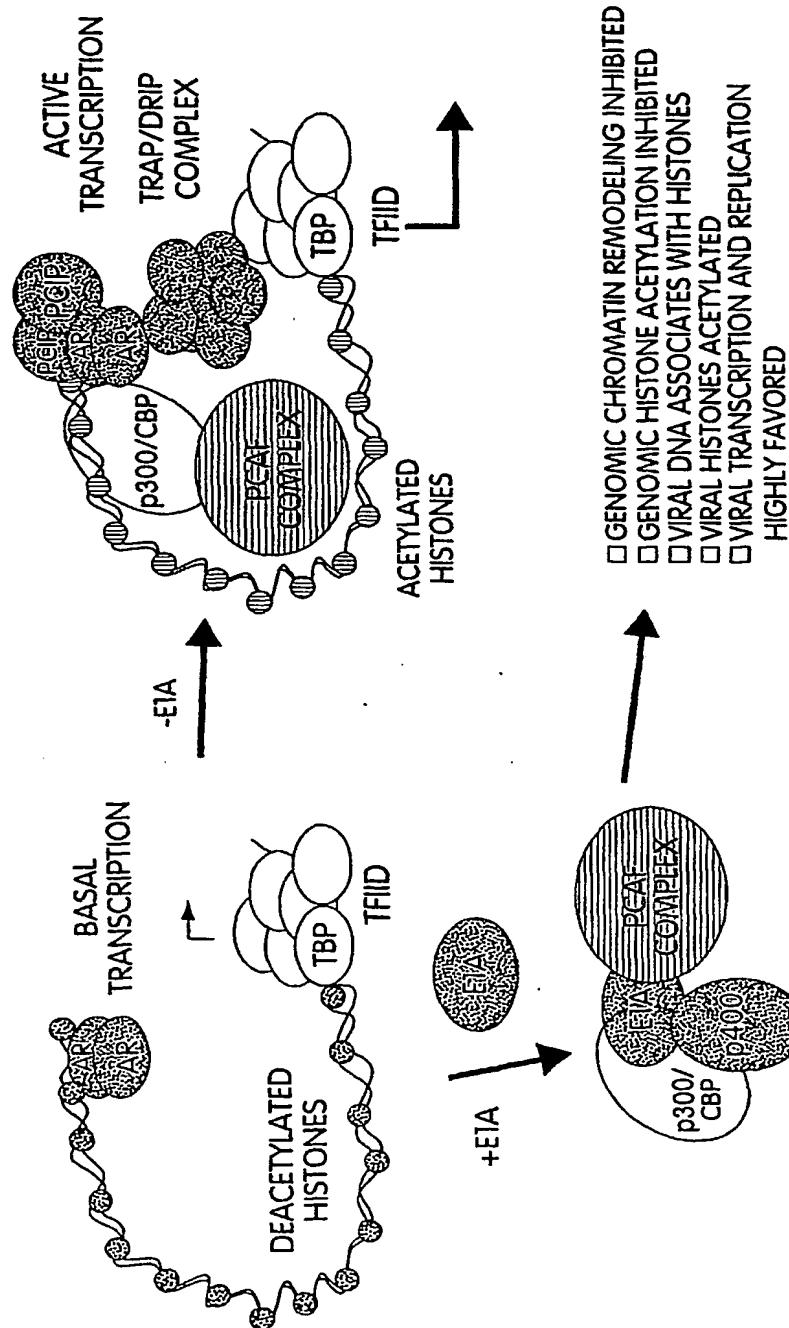


Fig. 4

THE REGULATORY EFFECT OF E1A-AR CHIMERA PROTEIN
ON PROSTATE SPECIFIC PROMOTER

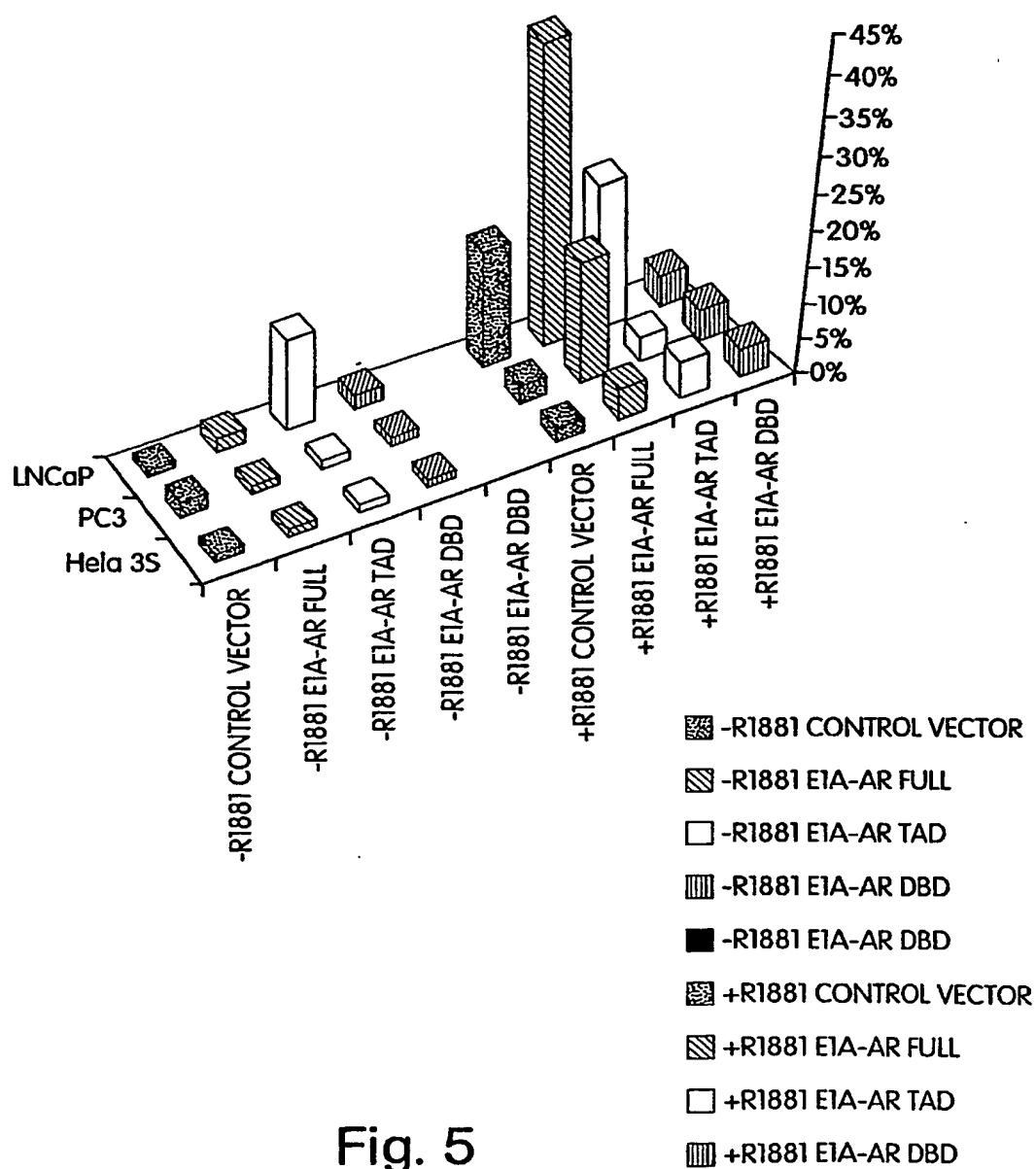


Fig. 5

SEQ ID NO: 1

LOCUS Ad5E1A-AR\full-length\fusion 3768 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE|266338450|

COMMENT VNTAUTHORNAME|Ron Rodriguez|

BASE COUNT 832 a 1062 c 1083 g 791 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc
61 cgccagctct ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag
121 ccattttgaa ccacctaccc ttacgaact gtatgattta gacgtgacgg cccccaaga
181 tcccaacgag gaggcggttt cgcagatttt tcccgaactt gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgcgggc gcccggttct cgggagccgc ctccactttc
301 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggaggtg atcgatctta cctgccacga ggttggtttt ccaccagtg acgacgagga
421 tgaagagggg gaggagtttg tgttagatta tgtggagcac cccgggcacg gttgcaggtc
481 ttgtcattat caccggagga atacggggga cccagatatt atgtgttcgc tttgxtatat
541 gaggacctgt ggcattgttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt
601 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgtggtt taaagaattt
661 tgtattgtga tttttttaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa
721 ccggagcctg caagacctac ccgccgtcct aaaatggcgc ctgctatcct gagacgcccg
781 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggctcctct
841 aacacacctc ctgagataca cccggtggtc ccgctgtgcc ccattaaacc agttgccgtg
901 agagtgtgtg ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg
961 caacctttgg acttgagctg taaacgcccc aggccagcgg ccgcagaagt gcagttaggg
1021 ctgggaaggg tctaccctcg gccgccgtcc aagacctacc gaggagcttt ccagaatctg
1081 ttccagagcg tgcgcgaagt gatccagaac ccgggcccc aaggacccaga ggcgcgcagc
1141 gcagcacctc ccggcgccag tttgctgctg ctgcagcagc agcagcagca gcagcagcag
1201 cagcagcagc agcagcagca gcagcagcag cagcaagaga ctagccccag gcagcagcag
1261 cagcagcagg gtgaggatgg ttctcccaaa gccatcgtg gaggccccac aggtacctg
1321 gtcctggatg aggaacagca accttcacag ccgcagtcgg cctggagtg ccaccccgag
1381 agaggttgcg tcccagagcc tggagccgcc gtggccgcc gcaaggggct gccgcagcag
1441 ctgccagcac ctccggacga ggtgactca getgccccat ccacgttgtc cctgctgggc
1501 ccactttcc ccggcttaag cagctgctcc gctgacctta aagacatcct gagcgaggcc
1561 agcaccatgc aactccttca gcaacagcag caggaagcag tatccgaagg cagcagcagc
1621 gggagagcga gggaggcctc gggggtccc acttctcca aggacaatta cttagggggc
1681 acttcgacca tttctgacaa cgccaaggag ttgtgtaagg cagtgtcggg gtccatgggc
1741 ctgggtgtgg aggcgttgga gcatctgagt ccagggaac agcttcgggg ggattgcatg
1801 tacgccccac ttttgggagt tccaccgct gtgcgtccca ctcttgtgc ccattggcc
1861 gaatgcaaag gttctctgct agacgacagc gcaggcaaga gcaactgaaga tactgctgag
1921 tattccctt tcaagggagg ttacaccaa gggctagaag gcgagagcct aggtgctct
1981 ggcagcgtg cagcaggagg ctccgggaca cttgaactgc cgtctacct gtctctctac
2041 aagtccggag cactggacga ggcagctgcg taccagagtc gcgactacta caactttcca
2101 ctggctctgg ccggaccgcc gcccctccg ccgcctcccc atccccacgc tcgcatcaag
2161 ctggagaacc cgctggacta cggcagcgcc tgggcggctg cggcggcgca gtgccgctat

```

Fig. 6-1

2221 ggggacctgg cgagcctgca tggcgcggggt gcagcggggac cgggttctgg gtcaccctca
2281 gccgcccgtt cctcatcctg gcacactctc ttcacagccg aagaaggcca gttgtatgga
2341 ccgtgtgggtg gtggtggggg tgggtggcggc ggcggcgggc cggcgggcggc
2401 ggcggcgggc ggcggcggcga ggcgggagct gtagccccct acggctacac tcggccccct
2461 caggggctgg cgggcccagga aagcgacttc accgcacctg atgtgtggta ccctggcggc
2521 atggtgagca gagtgcccta tcccagtcct acttgtgtca aaagcgaaat gggccccctg
2581 atggatagct actecggacc ttacggggac atgcgtttgg agactgccag ggaccatgtt
2641 ttgcccattg actattactt tccaccccag aagacctgcc tgatctgtgg agatgaagct
2701 tctgggtgtc actatggagc tctcacatgt ggaagctgca aggtcttctt caaaagagcc
2761 gctgaaggga aacagaagta cctgtgcgcc agcagaaatg attgcactat tgataaatc
2821 cgaaggaaaa attgtccatc ttgtcgtctt cggaaatgtt atgaagcagg gatgactctg
2881 ggagcccggga agctgaagaa acttggtaat ctgaaactac aggaggaagg agaggcttcc
2941 agcaccacca gcccactga ggagacaacc cagaagctga cagtgtcaca cattgaaggc
3001 tatgaatgtc agcccatctt tctgaatgtc ctggaagcca ttgagccagg tgtagtgtgt
3061 gctggacacg acaacaacca gcccgactcc tttgcagcct tgctctctag cctcaatgaa
3121 ctgggagaga gacagcttgt acacgtggtc aagtgggcca aggccttgcc tggettccgc
3181 aacttacacg tggacgacca gatggctgtc attcagtact cctggatggg gctcatgggtg
3241 tttgccatgg gctggcgatc cttcaccaat gtcaactcca ggatgctcta cttcgccccct
3301 gatctgggtt tcaatgagta ccgcatgcac aagtcgccga tgtacagcca gtgtgtccga
3361 atgaggcacc tctctcaaga gtttggatgg ctccaaatca cccccagga attcctgtgc
3421 atgaaagcac tgctactctt cagcattatt ccagtggatg ggctgaaaaa tcaaaaattc
3481 tttgatgaac ttcgaatgaa ctacatcaag gaactcgatc gtatcattgc atgcaaaaga
3541 aaaaatccca catcctgtct aagacgcttc taccagctca ccaagctcct ggactccgtg
3601 cagcctattg cgagagagct gcatcagttc acttttgacc tgctaataca gtcacacatg
3661 gtgagcgtgg actttccgga aatgatggca gagatcatct ctgtgcaagt gcccaagatc
3721 ctttctggga aagtcaagcc catctatttc cacacccagt gactcgag

Fig. 6-2

SEQ ID NO: 2

LOCUS Ad5E1A-AR\TAD\fusion 2970 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE|266339676|

COMMENT VNTAUTHORNAME|Ron Rodriguez|

BASE COUNT 628 a 845 c 899 g 598 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc
61 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag
121 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga
181 tcccaacgag gaggcgggtt cgcagatttt tcccgaactct gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgcgggc gcccggttct cccgagccgc ctcaccttct
301 cccgcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggagggt atcgatctta cctgccacga ggctggcttt ccacccagtg acgacgagga
421 tgaagagggt gaggagtttg tgttagatta tgtggagcac cccgggcacg gttgcaggtc
481 ttgtcattat caccggagga atacggggga ccagatatt atgtgttcgc tttgctatat
541 gaggacctgt ggcatgtttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt
601 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgtgggt taaagaattt
661 tgtatttgta tttttttaaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa
721 cccgagcctg caagacctac ccgcgcctct aaaatggcgc ctgctatcct gagacgcccg
781 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggtccttct
841 aacacacctc atgagataca cccggtgggt ccgctgtgcc ccattaaacc agttgccgtg
901 agagttgggt ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg
961 caaccttttg acttgagctg taaacgcccc aggccagcgg ccgcagaagt ccagttaggg
1021 ctgggaaggg tctacctcgc gccgcgcgtc aagacctacc gaggagcttt ccagaatctg
1081 ttccagagcg tgccgcgaagt gatccagaac ccgggccccca ggcaccaga ggccgcgagc
1141 gcagcacctc cccgcgccag tttgtgtgtg ctgcagcagc agcagcagca gcagcagcag
1201 cagcagcagc agcagcagca gcagcagcag cagcaagaga ctagccccag gcagcagcag
1261 cagcagcagg gtgaggatgg ttctcccca gcccacgta gaggccccac aggctacctg
1321 gtcttgatg aggaacagca accttcacag ccgcagtcgg ccctggagtg ccaccccag
1381 agaggttgcg tcccagagcc tggagccgcc gtggccgcca gcaagggggt gccgcagcag
1441 ctgccagcac ctccggacga ggatgactca gctgccccat ccacgttgtc cctgctgggc
1501 cccactttcc cccgcttaag cagctgtctc gctgacctta aagacatcct gagcagggcc
1561 agcaccatgc aactccttca gcaacagcag caggaagcag tatccgaagg cagcagcagc
1621 gggagagcga gggaggcctc gggggctccc acttctctca aggacaatta cttagggggc
1681 acttcgacca tttctgacaa cgccaaggag ttgtgtaagg cagtgtcggg gtccatgggc
1741 ctgggtgtgg aggcgttgga gcatctgagt ccagggaac agcttcgggg ggattgcatg
1801 tacgccccac ttttgggagt tccaccgct gtgcgtccca ctccttgtgc cccattggcc
1861 gaatgcaaa gttctctgct agacgacagc gcaggcaaga gcaactgaaga tactgctgag
1921 tattcccctt tcaaggagg ttacacaaa gggctagaag gcgagagcct aggtgtctct
1981 ggcagcgtg cagcagggag ctccgggaca cttgaactgc cgtctacct gtctctctac
2041 aagtccggag cactggacga ggcagctgcg taccagagtc gcgactacta caactttcca
2101 ctggctctgg ccggaccgcc gcccctccg ccgcctcccc atccccacgc tcgcatcaag

```

Fig. 7-1

2161 ctggagaacc cgctggacta cggcagcgcc tgggcggctg cggcggcgca gtgcgctat
2221 ggggacctgg cgagcctgca tggcgcggtt gcagcgggac ccggttctgg gtcacctca
2281 gccgccgctt cctcatcctg gcacactctc ttcacagccg aagaaggcca gttgtatgga
2341 ccgtgtggtg gtggtggggg tgggtggcggc ggcggcgggc gcggcgggcg cggcgggcggc
2401 ggcggcgggc gcggcgggca ggcgggagct gtagccccc acggctacac tcggccccct
2461 caggggctgg cgggccagga aagcgacttc accgcacctg atgtgtggtt ccctggcggc
2521 atggtgagca gagtgccta tcccagtcct acttgtgtca aaagcgaaat gggccccctg
2581 atggatagct actccggacc ttacggggac atgcgtttgg agactgccag ggaccatggt
2641 ttgcccattg actattactt tccacccag aagacctgcc tgatctgtgg agatgaagct
2701 tctgggtgtc actatggagc tctcacatgt ggaagctgca aggtcttctt caaaagagcc
2761 gctgaaggga aacagaagta cctgtgcgcc agcagaaatg attgcactat tgataaatc
2821 cgaaggaaaa attgtccatc ttgtcgtctt cggaaatggt atgaagcagg gatgactctg
2881 ggagcccgga agctgaagaa acttggtaat ctgaaactac aggaggaagg agaggcttcc
2941 agcaccacca gcccactga gtgactcgag

Fig. 7-2

SEQ ID NO: 3

LOCUS Ad5E1A-AR\DBD\fusion 1305 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE|266340593|

COMMENT VNTAUTHORNAME|Ron Rodriguez|

BASE COUNT 307 a 311 c 362 g 325 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggagggt gttattaccg aagaaatggc
61 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag
121 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccaaga
181 tcccaacgag gagggcggtt cgcagatctt tcccgactct gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgccggc gcccggttct cgggagccgc ctcaccttc
301 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggagggt atcgatctta cctgccacga ggctggcttt ccacccagtg acgacgagga
421 tgaagagggt gaggagtttg tgtagatta tgtggagcac cccgggcacg gttgcaggtc
481 ttgtcattat caccggagga atacggggga cccagatatt atgtgttcgc tttgctatat
541 gaggacctgt ggcattgttg tctacagtaa gtgaaaatta tgggcagtgg gtgatagagt
601 ggtgggtttg gtgtggtaat ttttttttta atttttacag ttttgggtt taaagaattt
661 tgtattgtga tttttttaa aggtcctgtg tctgaacctg agcctgagcc cgagccagaa
721 ccggagcctg caagacctac ccgccgtcct aaaatggcgc ctgctatcct gagacgcccg
781 acatcacctg tgtctagaga atgcaatagt agtacggata gctgtgactc cggctcttct
841 aacacacctc ctgagataca cccggtggtc ccgctgtgcc ccattaaacc agttgccgtg
901 agagttggtg ggcgtcgcca ggctgtggaa tgtatcgagg acttgcttaa cgagcctggg
961 caaccttttg acttgagctg taaacgcccc aggccagcgg ccgcaaagac ctgcctgac
1021 tgtggagatg aagcttctgg gtgtcactat ggagctctca catgtggaag ctgcaaggtc
1081 ttcttcaaaa gagccgctga agggaaacag aagtacctgt gcgccagcag aaatgattgc
1141 actattgata aattccgaag gaaaaattgt ccattctgtc gtcttcggaa atgttatgaa
1201 gcagggatga ctctgggagc ccggaagctg aagaaacttg gtaatctgaa actacaggag
1261 gaaggagagg cttccagcac caccagcccc actgagtgcac tcgag

```

Fig. 8

SEQ ID NO: 4

LOCUS 12S-ARVfull\ORF 3514 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE|268167626|

COMMENT VNTAUTHORNAME|Ron Rodriguez|

BASE COUNT 776 a 1035 c 1008 g 695 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc
61 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cactcctag
121 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga
181 tcccaacgag gaggcggttt cgcagatttt tcccgaactt gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgcgcgc gcccggttct ccggagccgc ctcaccttct
301 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggaggtg atcgatctta cctgccacga ggctggcttt ccaccagtg acgacgagga
421 tgaagaggtt cctgtgtctg aacctgagcc tgagcccgag ccagaaccgg agcctgcaag
481 acctaccgc cgtcctaaaa tggcgcctgc taccctgaga cgcccgacat cactgtgtct
541 tagagaatgc aatagtagta cggatagctg tgactccggt ccttctaaca cactcctga
601 gatacacccg gtggtcccgc tgtgccccat taaaccagtt gccgtgagag ttggtgggag
661 tcgccaggct gtggaatgta tcgaggactt gcttaacgag cctgggcaac ctttgactt
721 gagctgtaaa cgccccaggc cagcggccgc agaagtgcag ttagggtctg gaagggtcta
781 ccctcggccg ccgtccaaga cctaccgagg agctttccag aatctgttcc agagcgtgag
841 cgaagtgate cagaaccggg gccccaggca ccagaggcc gcgagcgcag cactcccg
901 cgccagtttg ctgctgctgc agcagcagca gcagcagcag cagcagcagc agcagggtga
961 gcagcagcag cagcagcagc aagagactag ccccgaggag cagcagcagc agcagggtga
1021 agatggttct cccaagccc atcgtagagg cccacaggc tacctggctc tggatgagga
1081 acagcaacct tcacagccgc agtcggccct ggagtgccac cccgagagag gttgcgtccc
1141 agagcctgga gccgcccgtg ccgccagcaa ggggtgccc cagcagctgc cagcacctcc
1201 ggacgaggat gactcagctg ccccatccac gttgtccctg ctgggcccc ctttccccgg
1261 cttaagcagc tgctccgctg acctaaaga catcctgagc gaggccagca ccatgcaact
1321 ccttcagcaa cagcagcagg aagcagtatc cgaaggcagc agcagcggga gagcagggga
1381 ggcctcgggg gctcccactt cctccaagga caattactta gggggcactt cgaccatttc
1441 tgacaacgcc aaggagtgtg gtaaggcagt gtcggtgtcc atgggcctgg gtgtggaggc
1501 gttggagcat ctgagtcag ggaacagct tcggggggat tgcagtacg cccactttt
1561 gggagttcca cccgtgtgc gtcacctcc ttgtgcccc ttggccgaat gcaaagggtc
1621 tctgctagac gacagcgcag gcaagagcac tgaagatact gctgagtatt ccccttcaa
1681 gggaggttac accaaagggc tagaaggcga gaggcctaggc tgctctggca gcgctgcagc
1741 agggagctcc gggacacttg aactgccgtc taccctgtct ctctacaagt ccggagcact
1801 ggacgaggca gctgcgtacc agagtgcgca ctactacaac ttccactgg ctctggccgg
1861 accgcgcgcc cctccgcgc ctcacctcc ccacgctcgc atcaagctgg agaaccgcgt
1921 ggactacggc agcgcctggg cggtgcggc ggcgcagtg cgctatggg acctggcgag
1981 cctgcatggc gcgggtgcag cgggaccgg ttctgggtca ccctcagcc ccgcttcctc
2041 atcctggcac actctcttca cagccgaaga aggccagttg tatggaccgt gtggtggtgg
2101 tgggggtggt ggcggcgagg gcggcgagg cggcgaggc ggcggcgagg ggcggcgagg

```

Fig. 9-1

2161 cggcgaggcg ggagctgtag cccctacgg ctacactcgg cccctcagg ggcggcggg
2221 ccaggaaagc gacttcaccg cacctgatgt gtggtaccct ggcggcattg tgagcagagt
2281 gccctatccc agtcccactt gtgtcaaaag cgaaatgggc ccctggatgg atagctactc
2341 cggaccttac ggggacatgc gtttgagac tgccaggac catgttttgc ccattgacta
2401 ttactttcca cccagaaga cctgcctgat ctgtggagat gaagcttctg ggtgtcacta
2461 tggagctctc acatgtggaa gctgcaaggc cttcttcaaa agagccgctg aagggaaca
2521 gaagtacctg tgcgccagca gaaatgattg cactattgat aaattccgaa ggaaaaattg
2581 tccatcttgt cgtcttcgga aatgttatga agcaggatg actctggag cccggaagct
2641 gaagaaactt ggtaactctga aactacagga ggaaggagag gcttcagca ccaccagccc
2701 cactgaggag acaaccagca agctgacagt gtcacacatt gaaggctatg aatgtcagcc
2761 catctttctg aatgtcctgg aagccattga gccagggtga gtgtgtgctg gacacgaca
2821 caaccagccc gactcctttg cagccttget ctctagcctc aatgaactgg gagagagaca
2881 gcttgtacac gtggtcaagt gggccaaggc cttgcctggc ttccgcaact tacacgtgga
2941 cgaccagatg gctgtcattc agtactcctg gatggggctc atggtgtttg ccatgggctg
3001 gcgaccttc accaatgtca actccaggat gctctacttc gccctgatc tggttttcaa
3061 tgagtaccgc atgcacaagt cccggatgta cagccagtgt gtccgaatga ggcacctctc
3121 tcaagagttt ggatggctcc aaatcacccc ccaggaattc ctgtgcatga aagcactgct
3181 actcttcagc attattccag tggatgggct gaaaaatcaa aaattctttg atgaacttcg
3241 aatgaactac atcaaggaaac tcgatcgtat cattgcatgc aaaagaaaaa atccacatc
3301 ctgctcaaga cgcttctacc agctaccaa gctcctggac tccgtgcagc ctattgcgag
3361 agagctgcat cagttcactt ttgacctgct aatcaagtca cacatggtga gcgtggactt
3421 tccggaaatg atggcagaga tcatctctgt gcaagtgcc aagatccttt ctgggaaagt
2481 caagcccatc tatttcaca cccagtgact cgag

Fig. 9-2

SEQ ID NO: 5

LOCUS 12S-AR\TAD\ORF 2716 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE12681677421

COMMENT VNTAUTHORNAME1Ron Rodriguez1

BASE COUNT 572 a 818 c 824 g 502 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc
61 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag
121 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga
181 tcccaacgag gaggcggttt cgcagatttt tcccgactct gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgcccgc gcccggttct ccggagccgc ctcacctttc
301 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggaggtg atcgatctta cctgccacga ggetggcttt ccaccagtg acgacgagga
421 tgaagagggg cctgtgtctg aacctgagcc tgagcccgag ccagaaccgg agcctgcaag
481 acctacccgc cgtcctaaaa tggcgctgc taccctgaga cgcccgacat cactgtgtc
541 tagagaatgc aatagtagta cggatagctg tgactccggt ccttctaaca cacctcctga
601 gatacacccg gtgggtccgc tgtgcccct taaaccagtt gccgtgagag ttggtgggcg
661 tcgccaggct gtggaatgta tggaggactt gcttaacgag cctgggcaac ctttgactt
721 gagctgtaaa cgccccaggc cagcggccgc agaagtgcag ttagggctgg gaagggtcta
781 ccctcggccg cgtccaaga cctaccgagg agctttccag aatctgttcc agagcgtgcg
841 cgaagtgatc cagaaccggg gccccaggca ccagaggcc gcgagcgag cacctcccgg
901 cgccagtttg ctgctgctgc agcagcagca gcagcagcag cagcagcagc agcagcagca
961 gcagcagcag cagcagcagc aagagactag ccccaggcag cagcagcagc agcaggggtga
1021 ggatggttct ccccaagccc atcgtagagg ccccacaggc tacctggtcc tggatgagga
1081 acagcaacct tcacagccgc agtcggccct ggagtgccac cccgagagag gttgcgtccc
1141 agagcctgga gccgccgtgg ccgccagcaa ggggtgccc cagcagctgc cagcacctcc
1201 ggacgaggat gactcagctg ccccatccac gttgtccctg ctgggcccc ctttccccgg
1261 ctttaagcagc tgctccgctg acctaaaga catcctgagc gaggccagca ccatgcaact
1321 ccttcagcaa cagcagcagg aagcagatc cgaaggcagc agcagcggga gagcagggga
1381 ggcctcgggg gctcccactt cctccaagga caattactta gggggcactt cgaccatttc
1441 tgacaacgcc aaggagttgt gtaaggcagt gtcggtgtcc atgggectgg gtgtggaggc
1501 gttggagcat ctgagtccag gggaacagct tcggggggat tgcagtacg cccactttt
1561 gggagttcca ccgctgtgc gtcccactcc ttgtgcccc ttggccgaat gcaaagggtc
1621 tctgctagac gacagcgag gcaagagcac tgaagatact gctgagtatt cccctttcaa
1681 gggaggttac accaaagggc tagaaggcga gagcctaggc tgctctggca gcgctgcagc
1741 agggagctcc gggacacttg aactgccgtc taccctgtct ctctacaagt ccggagcact
1801 ggacgaggca gctgcgtacc agagtccgca ctactacaac ttccactgg ctctggccgg
1861 accgcgcgcc cctccgcgcg ctcctccatc ccacgtcgc atcaagctgg agaaccgcgt
1921 ggactacggc agcgcctggg cggtgcggc ggcgagtgcc cgtatgggg acctggcgag
1981 cctgcatggc gcgggtgcag cgggaccggg ttctgggtca cctcagccg ccgttctc
2041 atcctggcac actctcttca cagccgaaga aggccagttg tatggaccgt gtggtggtgg
2101 tgggggtggt ggcggcgggc gcggcgggcg cggcgggcgg ggcggcgggc ggcggcgggc

```

Fig. 10-1

2161 cggcgaggcg ggagctgtag cccctacgg ctacactcgg cccctcagg ggctggcggg
2221 ccaggaaagc gacttcaccg cacctgatgt gtggtaccct ggcggcatgg tgagcagagt
2281 gccctatccc agtcccactt gtgtcaaaag cgaaatgggc ccctggatgg atagctactc
2341 cggacettac ggggacatgc gtttggagac tgccagggaac catgttttgc ccattgacta
2401 ttactttcca cccagaaga cctgcctgat ctgtggagat gaagcttctg ggtgtcacta
2461 tggagctctc acatgtggaa gctgcaaggt cttcttcaa agagccgctg aagggaaaca
2521 gaagtacctg tgcgccagca gaaatgattg cactattgat aaattccgaa ggaaaaattg
2581 tccatcttgt cgtcttcgga aatgttatga agcagggatg actctgggag cccggaagct
2641 gaagaaactt ggtaatctga aactacagga ggaaggagag gcttccagca ccaccagccc
2701 cactgagtga ctcgag

Fig. 10-2

SEQ ID NO: 6

LOCUS 125-DBD\ORF 1051 bp DNA

SOURCE

ORGANISM

COMMENT This file is created by Vector NTI

<http://www.informaxinc.com/>

COMMENT VNTDATE|268064542|

COMMENT VNTAUTHORNAME|Ron Rodriguez|

BASE COUNT 251 a 284 c 287 g 229 t

ORIGIN

```

1 accgggactg aaaatgagac atattatctg ccacggaggt gttattaccg aagaaatggc
61 cgccagtctt ttggaccagc tgatcgaaga ggtactggct gataatcttc cacctcctag
121 ccattttgaa ccacctaccc ttcacgaact gtatgattta gacgtgacgg cccccgaaga
181 tccaacgag gaggcgggtt cgcagatttt tcccgaactct gtaatgttgg cgggtgcagga
241 agggattgac ttactcactt ttccgcgggc gcccggttct ccggagccgc ctcacctttc
301 ccggcagccc gagcagccgg agcagagagc cttgggtccg gtttctatgc caaaccttgt
361 accggagggt atcgatctta cctgccacga ggctggcttt ccaccagtg acgacgagga
421 tgaagaggtt cctgtgtctg aacctgagcc tgagcccgag ccagaaccgg agcctgcaag
481 acctaccgac cgtcctaaaa tggcgccctg tatcctgaga cgcccgacat cacctgtgtc
541 tagagaatgc aatagtagta cggatagctg tgactccggt ccttctaaca cacctcctga
601 gatacacccg gtggtccgc tgtgccccat taaaccagtt gccgtgagag ttggtgggag
661 tcgccaggct gtggaatgta tcgaggactt gcttaacgag cctgggcaac ctttggaactt
721 gagctgtaaa cgccccaggc cagcggccgc aaagacctgc ctgatctgtg gagatgaagc
781 ttctgggtgt cactatggag ctctcacatg tggaagctgc aaggtcttct tcaaaagagc
841 cgctgaaggg aaacagaagt acctgtgcgc cagcagaaat gattgcacta ttgataaatt
901 ccgaaggaaa aattgtccat cttgtcgtct tcggaaatgt tatgaagcag ggatgactct
961 gggagcccg aagctgaaga aacttggtta tctgaaacta caggaggaag gagaggcttc
1021 cagcaccacc agccccactg agtgactcga g

```

Fig. 11

SEQ ID NO: 7

12S-AR FULL-LENGTH

mrhiichggviteemaaslldqliееvladnlpppshfepptlhelyldlvtapedpneeav
sqifpdsvglavqegidlltfppapgspepphlsrcpeqpeqralgpvsmplvpevidlt
cheagfppsddedeegpvsepepepepepeparptrrpkmapailrrptspvsrecnsstd
scdsgpsntppeihpvvplcpikpvavrvvgrrqaveci edllnepgqpldlscrrprpaaa
evqlglgrvyprppskskyrgafqnlfgsvreviqnpgprhpeaasaappgasllllqqqqqq
qqqqqqqqqqqqqqqgetsprqqqqqqgedgspqahrrgptgylvldeeqqpsqpqsal
echpergcvpepgaavaaskglpqqlpappdeddsaapstlsllgptfpglsscsadlkdlis
eastmqllqqqqgeavsegsssgrareasgaptsskdnylggtstisdnakelckavsvsm
glgvealehlspgeqlrgdcmyapllgvppavrrptpcaplaeckgsllddsagkstedtaey
spfkgytkglegeslgcsgsaaagaagtlelpstlslyks galdeaaaayqsr dyynfplala
gppppppppphphariklenpldygsawaaaaaqcrygd laslhgagaagpgsgspsaaas
sswhtlftaeegglygpcgggggggggggggggggggggggggggeagavapygytrppq
glaggesdftapdvwyppgmvsrvpypsptcvksempwmdsysgpygdmrletar
dhvlpidyfppqktcligdeasgchygal tcsckvffkraaegkqkylcasrndctidk
frrkncpscrlrkcyeamtlgarklklgnlklqeegeassttspteettqkltvshiegye
cqpiflnvleaiepgvvccagh dnnqpdsfaallsslnelgerqlvhvkwakalp gfrnlhvd
dqmaviqyswmglmvfamgwrsftnvnsmlyfapdlvfneyrmhksrmysqcvr
mrhlsqefgwlqitpgeflcmkalllfsiipvdglknqkffdelrmnyikeldriiackrknp
tscsrrfyqltklldsvqpiarelhqftfdllikshmvsvdfpemmaeiisvqvapkilsgkvk
piyfhtq

Fig. 12

SEQ ID NO: 8

12S-AR TAD

mrhiichggviteemaaslldqliieevladnlpppshfepptlhelydlldvtapedpneeav
sqifpdsvglavqegidlltfppapgspepphlsrqpeqpeqralgpvsmplvpevidlt
cheagfppsddedeegpvsepepepepepeparptrrpkmapiailrrptspvsrecnsstd
scdsgpsntppeihpvplcpikpvavrvvgrrqaveciiedllnepgqpldlscrprpaaa
evqlglgrvyprppsktyrgafqnlfqsvreviqnpgprhpeaasaappgasllllqqqqqq
qqqqqqqqqqqqqqqet sprqqqqqqqgedgspqahrrgptgylvldeeqqpsqpqsal
echpergcvpepgaavaaskglpqqlpappdeddsaapstlsllgptfpglsscsadlkdlis
eastmqllqqqqqgeavsegsssgrareasgaptsskdnylpggtstisdnakelckavsvsm
glgvealehlspgeqlrgdcmyapllgvppavrrptpcaplaeckgsllddsagkstedtaey
spfkgytkglegeslgcsgsaaagssgtlelpstlslyksgaldeaaayqsrdyynfplala
gpppppppphphariklenpldygsawaaaaaqcrygd laslhgagaagpgsgspsaas
sswhlftaeegqlygpcgggggggggggggggggggggggggggeagavapygytrppq
glaggesdftapdvwyppgmvsrvpypsptcvksempwmdsysgpygdmrletar
dhvlpidyfppqktcliegdeasgchygaltcgscckvffkraaegkqkylcasrndctidk
frrkncpscrlrkcyeamtlgarklklgnlklqeegaeassttspte

Fig. 13

SEQ ID NO: 9

12S-AR-DBD

mrhiichggviteemaaslldqliееvladnlpppshfepptlhelydlldvtapedpneeav
sqifpdsvmlavqegidlltfppapgspepphlsrqpeqpeqralgpvsmplvpevidlt
cheagfppsddedeegpvsepepepepepeparptrrpkmapiailrrptspvsrecnsstd
scdsgpsntppeihpvplcpikpvavrvvgrrqaveciiedllnepggpldlsckrprpaaa
ktcliegdeasgchygaltcgsckvffkraaegkqkylcasrndctidkfrkncpscrlrkc
yeagmtlgarklklgnlklqegeassttspte

Fig. 14

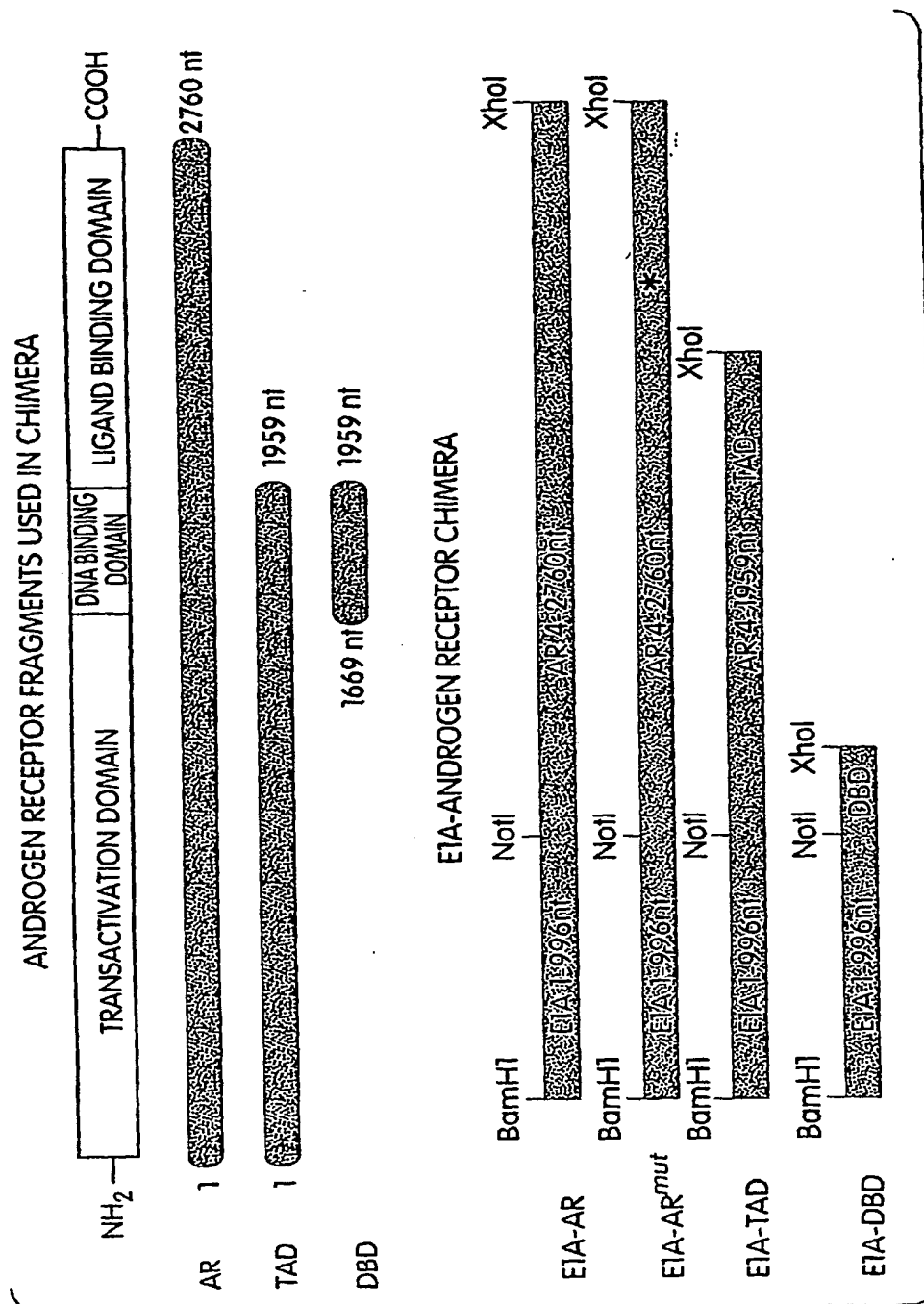


Fig.15

SEQ ID NO: 10

E1A

atgagacatattatctgccacggagggtgttattaccgaagaaatggccgccagtct
tttggaccagctgategaagagggtactggctgataatcttccacctcctagccatt
ttgaaccacctacccttcacgaactgtatgatttagacgtgacggccccgaagat
cccaacgaggaggcggtttcgcagatTTTTCCCGactctgtaatgttggcggtgca
ggaagggattgacttactcacttttccgcggcgcccggttctccggagccgcctc
acctttcccggcagcccgagcagccggagcagagagccttgggtccggtttctatg
ccaaaccttgtaccggagggtgategatcttacctgccacgaggctggctttccacc
cagtgacgacgaggatgaagaggggtgaggagtttgtgttagattatgtggagcacc
ccgggcacggttgcaggtcttgtcattatcacccggaggaatacgggggaccagat
attatgtgttccgctttgctatatgaggacctgtggcatgtttgtctacagtaagtg
aaaattatgggcagtggtgatagagtgggtgggtttgggtgtggtaatTTTTTTTT
aatTTTTacagttttgtggtttaaagaattttgtattgtgattTTTTTaaaaggtc
ctgtgtctgaacctgagcctgagcccagccagaaccggagcctgcaagacctacc
cgccgtcctaaaatggcgccctgctatcctgagacgcccacatcacctgtgtctag
agaatgcaatagtagtacggatagctgtgactccggtccttctaacacacctcctg
agatacaccgggtgggtcccgtgtgccccattaaaccagttgccgtgagagttggt
ggcggtcgccaggctgtggaatgtatcgaggacttgcttaacgagcctgggcaacc
tttggacttgagctgtaaaccgcccaggccataa

Fig. 16

SEQ ID NO. 11

E1A_TAD

atgagacatattatctgccacggaggtgttattaccgaagaaatggccgccagtct
tttggaccagctgatcgaagaggtaactggctgataatcttccacctcctagccatt
ttgaaccacctacccttcacgaactgtatgatttagacgtgacggccccccaagat
cccaacgaggaggcggtttegcagatttttcccgactctgtaatgttggcggtgca
ggaagggattgacttactcacttttccggccggcgcccggttctccggagccgcctc
acctttcccgccagcccgagcagccggagcagagagccttgggtccggtttctatg
ccaaaccttgtaccggaggtgatcgatcttacctgccacgaggctggctttccacc
cagtgacgacgaggatgaagaggggtgaggagtttgtgttagattatgtggagcacc
ccgggcacggttgcaggtcttgtcattatcacccggaggaatacggggggaccagat
attatgtgttcgctttgctatatgaggacctgtggcatgtttgtctacagtaagtg
aaaattatgggcagtggtgatagagtggtgggtttggtgtggttaattttttttt
aatttttacagttttgtggtttaaagaattttgtattgtgatttttttaaaaggtc
ctgtgtctgaacctgagcctgagcccgagccagaaccggagcctgcaagacctacc
cgccgtcctaaaaatggcgccctgctatcctgagacgcccagacatcacctgtgtctag
agaatgcaatagtagtacggatagctgtgactccggtccttctaacacacctcctg
agatacacccgggtgggtcccgctgtgccccattaaaccagttgccgtgagagttggt
gggcgtcgccaggctgtggaatgtatcgaggacttgcttaacgagcctgggcaacc
tttggacttgagctgtaaacgccccaggccataa

Fig. 17

SEQ ID NO. 12

E1A_AR

atgagacatattatctgccacggaggtgttattaccgaagaaatggccgccagtct
tttggaccagctgatcgaagaggtactggctgataatcttccacctcctagccatt
ttgaaccacctacccttcacgaactgtatgatttagacgtgacggcccccgaagat
cccaacgaggaggcggtttcgcagatttttcccgactctgtaatgttggcggtgca
ggaagggattgacttactcacttttccgcggcgcccggttctccggagccgcctc
acctttcccggcagcccgagcagccggagcagagagccttgggtccgggtttctatg
ccaaaccttgtaaccggaggtgatcgatcttacctgccacgaggtggctttccacc
cagtgcgacgaggatgaagaggggtgaggagtttgtgttagattatgtggagcacc
ccgggcacgggtgcaggtcttgtcattatcacccggaggaatacgggggaccagat
attatgtgttcgctttgctatatgaggacctgtggcatgtttgtctacagtaagtg
aaaattatgggcagtggtgatagagtgggtgggtttgggtgtggttaattttttttt
aatttttacagttttgtggtttaaagaattttgtattgtgatttttttaaagggtc
ctgtgtctgaacctgagcctgagcccgagccagaaccggagcctgcaagacctacc
cgccgtcctaaaatggcgccctgctatcctgagacgcccagacatcacctgtgtctag
agaatgcaatagtagtacggatagctgtgactccgggtccttctaacacacctcctg
agatacacccgggtgggtcccgctgtgccccattaaaccagttgccgtgagagttggt
gggcgtcgccaggctgtggaatgtatcgaggacttgcttaacgagcctgggcaacc
tttggacttgagctgtaaaccgcccaggccataagcggccgcagaagtgcagtttag
ggctgggaagggtc

Fig. 18

SEQ ID NO. 13

E1A_AR_C685Y

atgagacatattatctgccacggaggtgttattaccgaagaaatggccgccagttct
tttggaccagctgatcgaagaggtactggctgataatcttccacctcctagccatt
ttgaaccacctacccttcacgaactgtatgatttagacgtgacggccccgaagat
cccaacgaggaggcggtttcgcagatttttcccgactctgtaatgttggcggtgca
ggaagggattgacttactcacttttccgcgcggcgcccggttctccggagccgcctc
acctttcccggcagcccgagcagccggagcagagagccttgggtccgggtttctatg
ccaaaccttgtaccggaggtgatcgatcttacctgccacgaggctggctttccacc
cagtgacgacgaggatgaagaggggtgaggagtttgtgttagattatgtggagcacc
ccgggcacgggttgacgggtcttgtcattatcaccggaggaatacgggggaccagat
attatgtgttccgctttgtctatatgaggacctgtggcatgtttgtctacagtaagtg
aaaatttatgggcagtggttgatagagtgggtgggtttgggtgtggttaattttttttt
aatttttacagttttgtggttttaaagaattttgtattgtgatttttttaaaaggtc
ctgtgtctgaacctgagcctgagcccagaccagaaccggagcctgcaagacctacc
cgccgtcttaaaatggcgccctgctatcctgagacgcccagacatcacctgtgtctag
agaatgcaatagtagtacggatagctgtgactccgggtccttctaacacacctcctg
agatacacccgggtgggtcccgtgtgccccattaaaccagttgccgtgagagttgggt
gggcgtcgccaggctgtggaatgtatcgaggacttgcttaacgagcctgggcaacc
tttggacttgagctgtaaaccgcccaggccataagcggccgcagaagtgcagtttag
ggctgggaagggtc

Fig. 19

THE EFFECT OF GELDANAMYCIN ON AR FUNCTION IN E1A-AR
CHIMERA USING REPORTER PSE-PBN-luc
(COS-1 CELLS, 3/31/03)

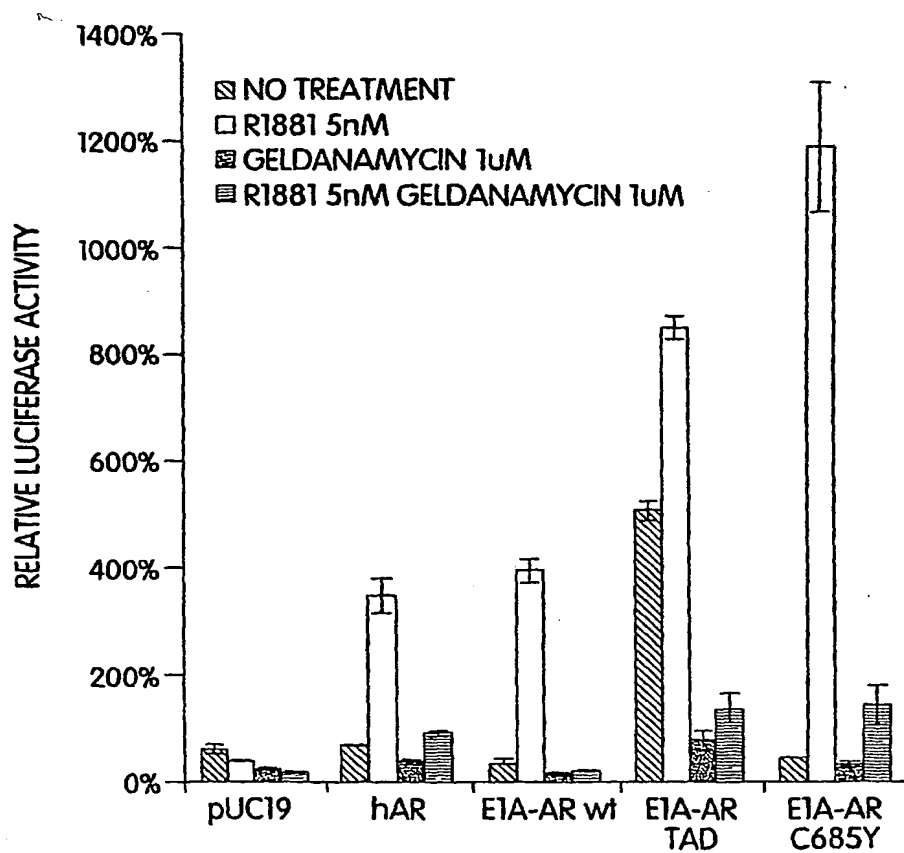


Fig. 20

THE EFFECT OF GELDANAMYCIN ON AR FUNCTION IN E1A-AR
CHIMERA USING REPORTER PSE-PBN-luc
(PC3 CELLS, 3/31/03)

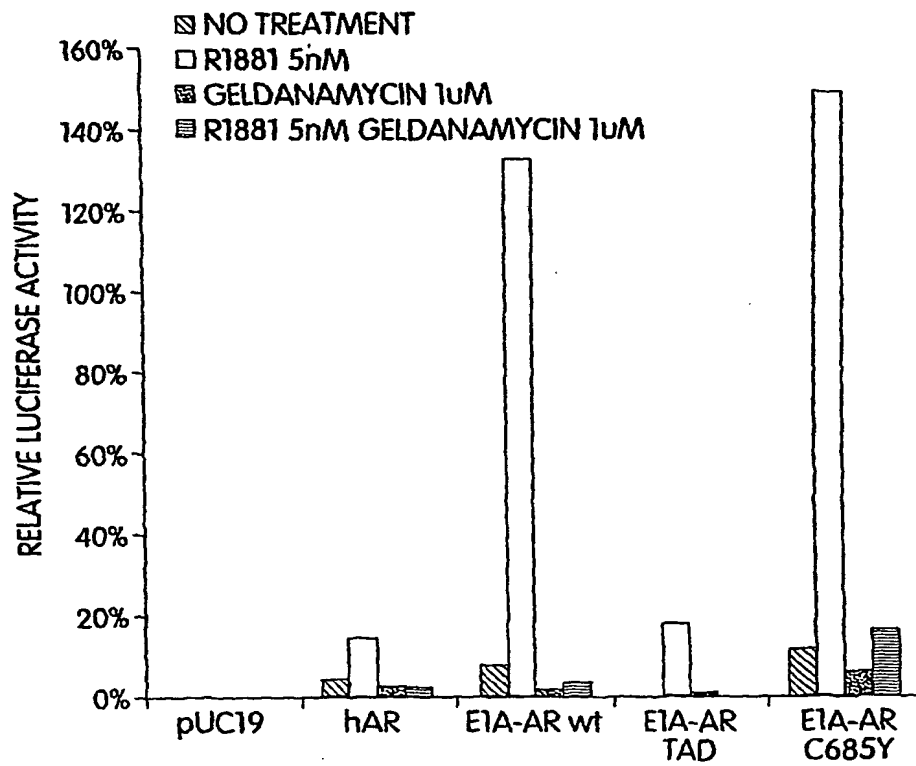


Fig. 21

INDUCTION OF E1A-AR WT AND E1A-AR C685Y
BY ANDROGEN AGONIST AND ANTAGONISTS IN PC3

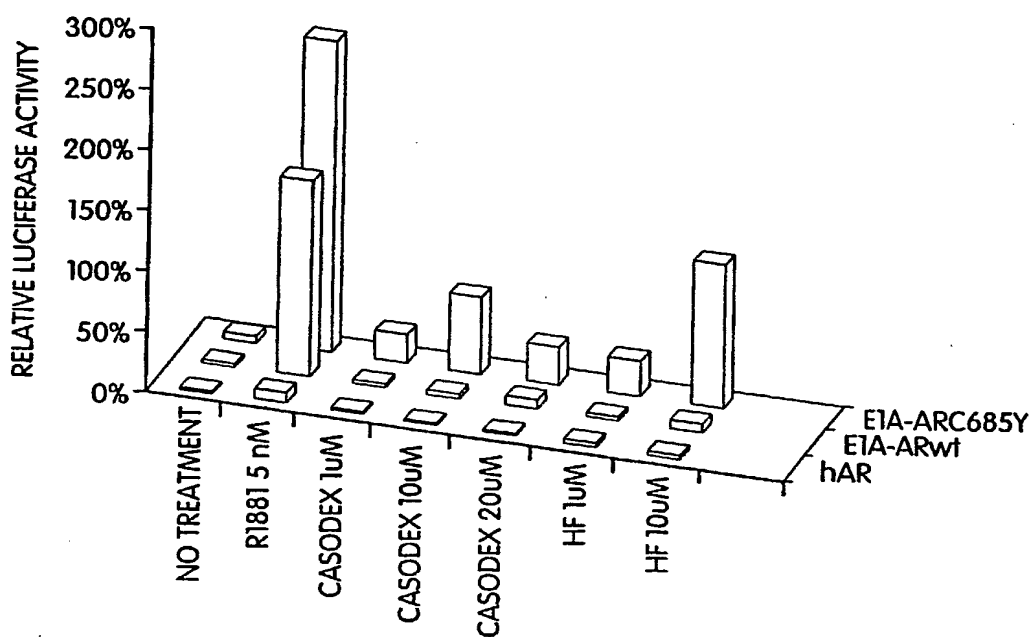


Fig. 22